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1 Continuous program optimization: A case study

[Thomas Kistler, Michael Franz](#)

July

2003

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (877.67 KB)

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Much of the software in everyday operation is not making optimal use of the hardware on which it actually runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization overheads introduced by software engineering considerations, ...

Keywords: Dynamic code generation, continuous program optimization, dynamic reoptimization

2 Process migration

[Dejan S. Milojkovic, Fred Douglas, Yves Paindaveine, Richard Wheeler, Songnian Zhou](#)

September

2000

Publisher: ACM [Request Permissions](#)

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Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

3 Fast detection of communication patterns in distributed executions

[Thomas Kunz, Michiel F. H. Seuren](#)

November

1997

Publisher: IBM Press


Full text available: [PDF](#) (4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 334, Downloads (Overall): 5858, Citation Count: 0


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

4 [Disco: running commodity operating systems on scalable multiprocessors](#)

 [Edouard Bagnion](#), [Scott Devine](#), [Kinshuk Govil](#), [Mendel Rosenblum](#)

November 1997 **Transactions on Computer Systems (TOCS)** , Volume 15 Issue 4

Publisher: ACM [Request Permissions](#)

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In this article we examine the problem of extending modern operating systems to run efficiently on large-scale shared-memory multiprocessors without a large implementation effort. Our approach brings back an idea popular in the 1970s: virtual machine ...

Keywords: scalable multiprocessors, virtual machines

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